



SIP Connect 112

Upgrade kit for the OpenCom 131

Internet telephony and convenient automatic routing

Internet telephony (Voice over DSL) using the OpenCom 100

Internet telephony has become a serious competitor for conventional fixed-network telephony. The reasons are the growing number of broadband Internet connections, the introduction of a protocol for assigning telephone numbers to IP addresses, the wide range of gateways offered by various vendors and the proliferation of the SIP protocol. Voice quality and availability have long passed the stage of being experimental.

SIP Connect 112 upgrades Aastra-DeTeWe's OpenCom 131 for Internet telephony. It consists of the M100-AT4 interface module and the external IP-Gateway 1.

The intelligent routing selection of the OpenCom 100 enables three convenient methods of route selection for SIP telephone numbers:

- » automatic, using LCR
- » automatic, using a telephone book
- » manual, using a route code



Highlights

- » At least two simultaneous Voice-over-IP calls
- » Four SIP accounts can be configured
- » Intelligent route selection using the LCR of the OpenCom 100
- » Configuration of the OpenCom 100 and the IP-Gateway 1 by means of a Web browser
- » Internet telephony (via DSL)
- » Internet telephony using the SIP protocol, compatible with sipgate and other popular Internet telephony providers
- » Up to four SIP accounts can be assigned to the four analogue ports of the OpenCom 100, and a default provider selected for each port
- » Up to four simultaneous Internet telephone calls are possible (depends on the DSL upstream bandwidth provided). The number of simultaneous calls can be configured - up to four are possible under certain conditions
- » Automatic negotiation of the codec as configured; choice is based on the criterion of maximum compatibility with the other party
- » Codecs: G.711 A-law / μ -law, G.726-32 and GSM 6.10 in the following combinations (examples are simultaneous calls, bandwidth requirements apply to both up- and downstream transmission):
 - Four calls using G.711; required bandwidth is $4 \times 80 \text{ kbps} > \text{approx. } 350 \text{ kbps}$
 - One call using G.726 and three calls using G.711; required bandwidth is $1 \times 48 \text{ kbps} + 3 \times 80 \text{ kbps} > \text{approx. } 300 \text{ kbps}$
 - Two calls using GSM 6.10 and two calls using G.711; required bandwidth is $2 \times 30 \text{ kbps} + 2 \times 80 \text{ kbps} > \text{approx. } 220 \text{ kbps}$

Features of IP-Gateway 1:

- » DHCP server for automatic assignment of IP addresses in the LAN
- » SNTP client and server for synchronisation of date and time on all PCs in the LAN with time servers on the Internet
- » Configuration via a Web browser (independent of operating system)
- » Remote configuration via ISDN or DSL possible
- » STUN protocol supports operation on external routers, e.g. VPN-router
- » Firewall with port forwarding
- » Traffic shaping

Technical Data IP-Gateway 1:

- » 1 WAN/DSL port (10/100 Mbps)
- » 1 LAN port (10/100 Mbps)
- » WAN: PPPoE protocol and fixed IP address
- » Power supply: 230 V/50 Hz (plug-in adapter)
- » Dimensions (W x H x D): 262 x 157 x 56 mm
- » IP-Gateway 1 is suitable for tabletop or wall-mounted operation. The M100-AT4 is fitted in the OpenCom 131

Scope of delivery

- » M100-AT4
- » IP-Gateway 1

Order Information

- » Part no. 69515
- » EAN-Code 4 019 617 695 154

